

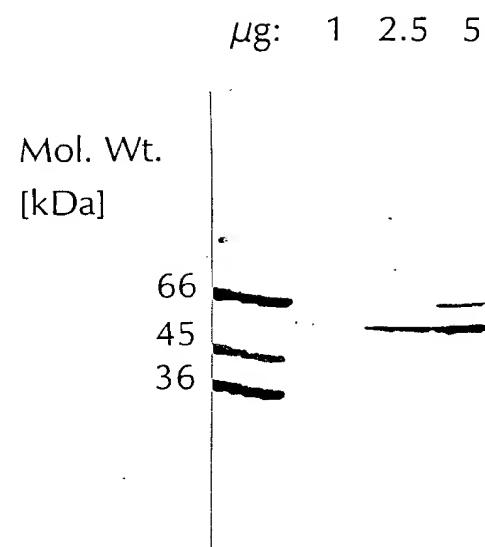
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Figure 1:

Coomassie Blue-stained SDS/Polyacrylamide Gel of Purified bscCD19xCD3

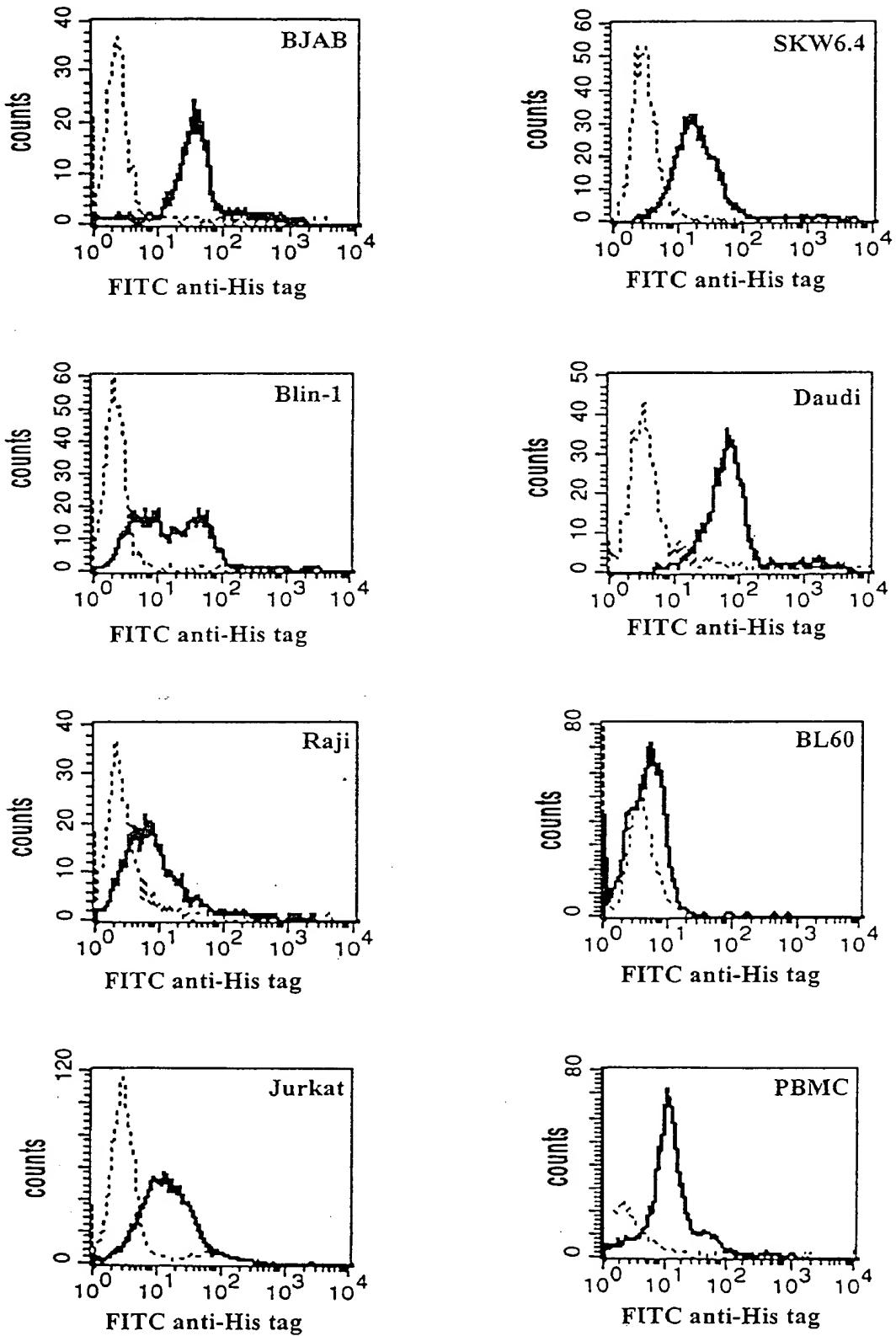
66
45
36



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Figure 2:



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Figure 3:

Cytotoxicity of bscCD19xCD3 in a ^{51}Cr release assay
with unstimulated PBMC against different B cell lines

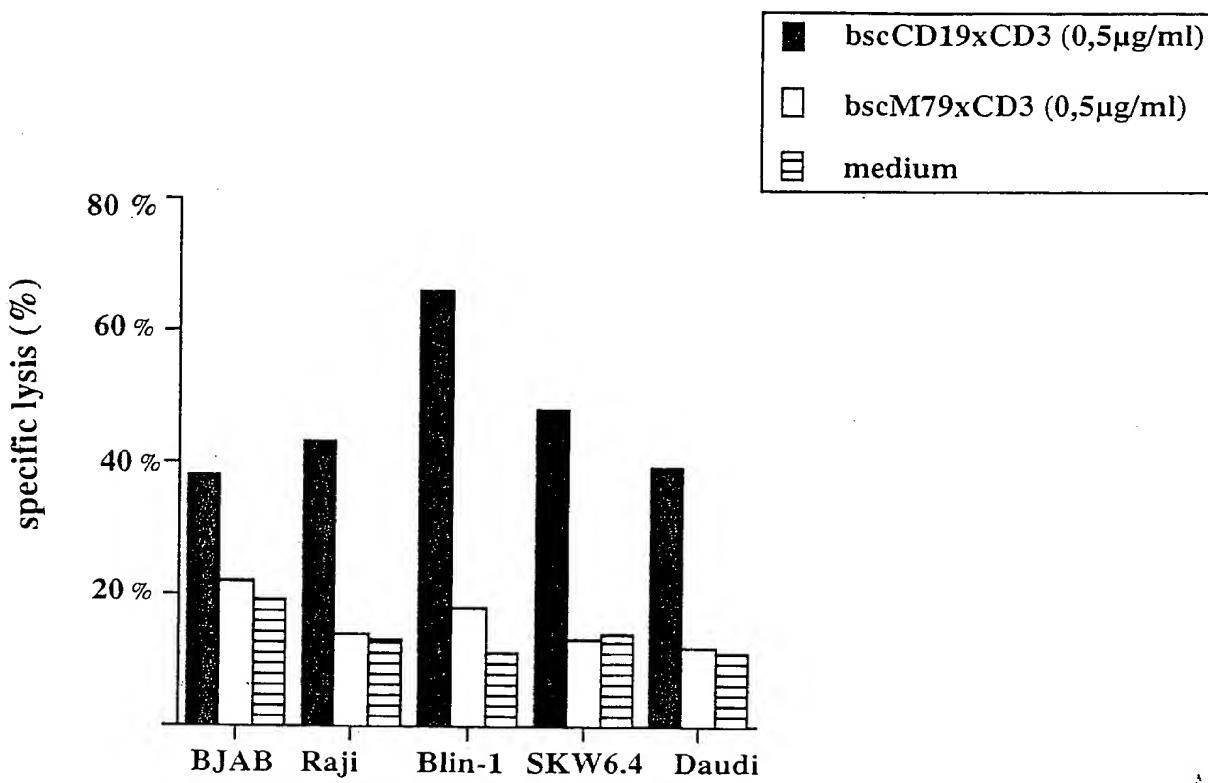


Figure 4:

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**Cytotoxicity assay with PBMC against CD19⁺ Daudi
and CD19⁻ plasmacytoma cells (L363 and NCI)**

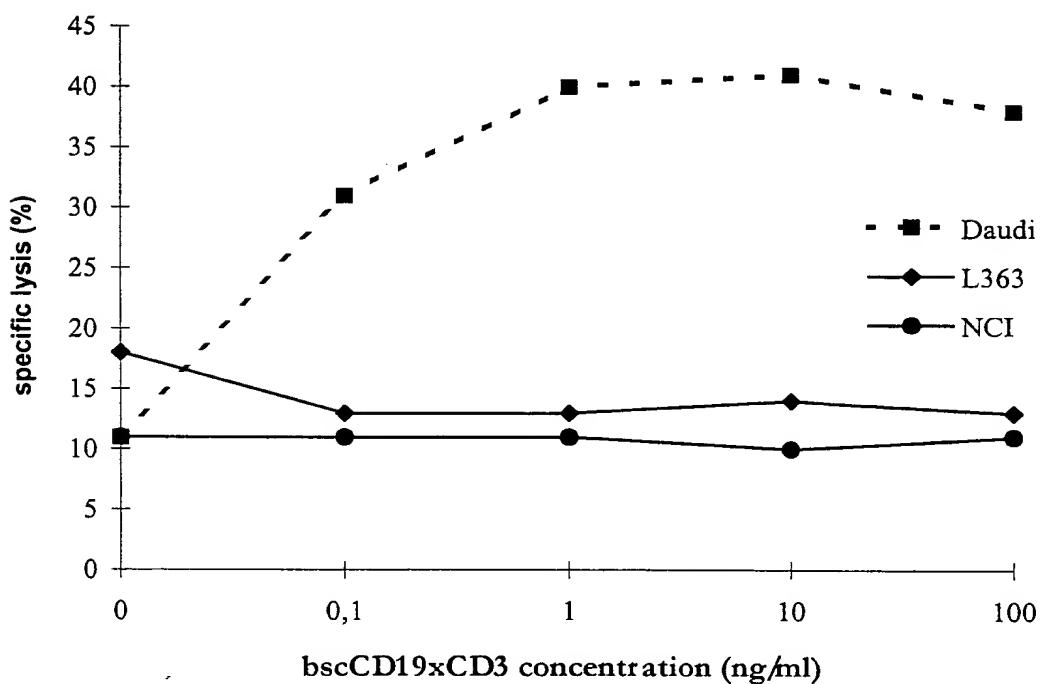
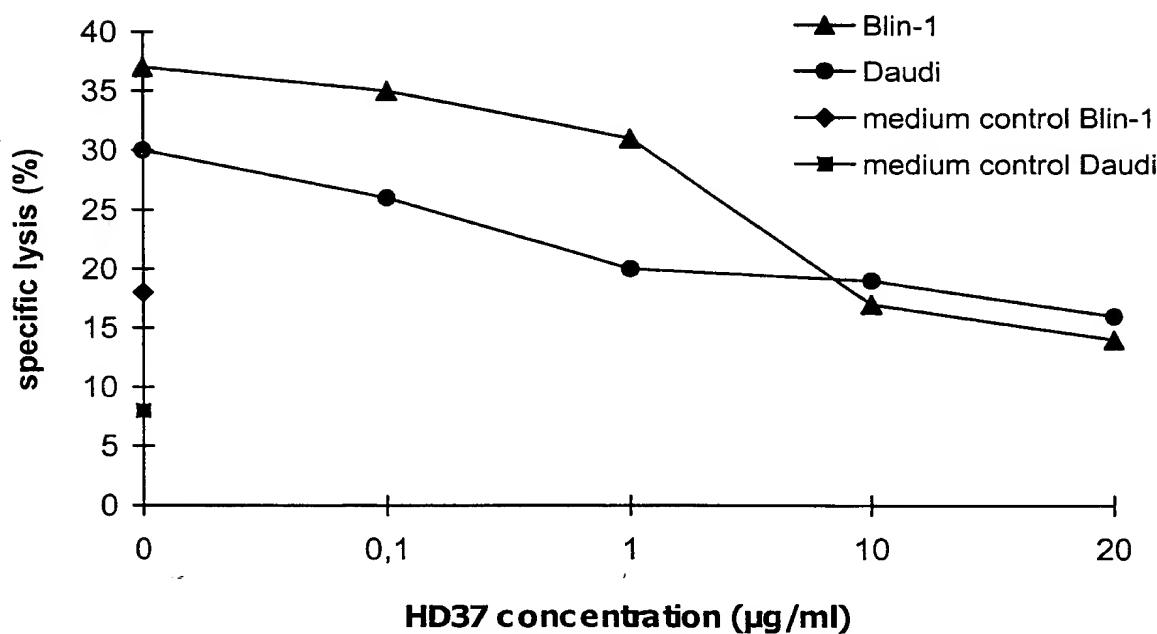


Figure 5:

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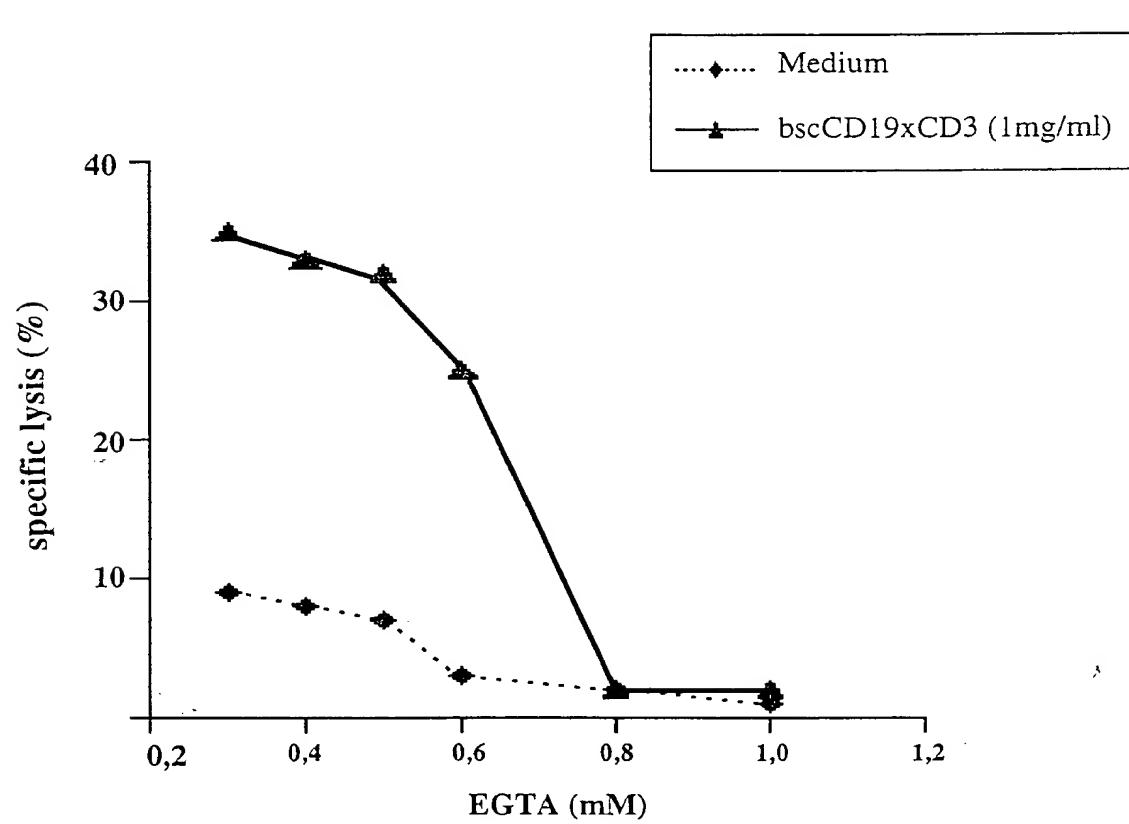
**Inhibition of the cytotoxicity of bscCD19xCD3
by the parental anti-CD19 antibody HD37**



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Figure 6:

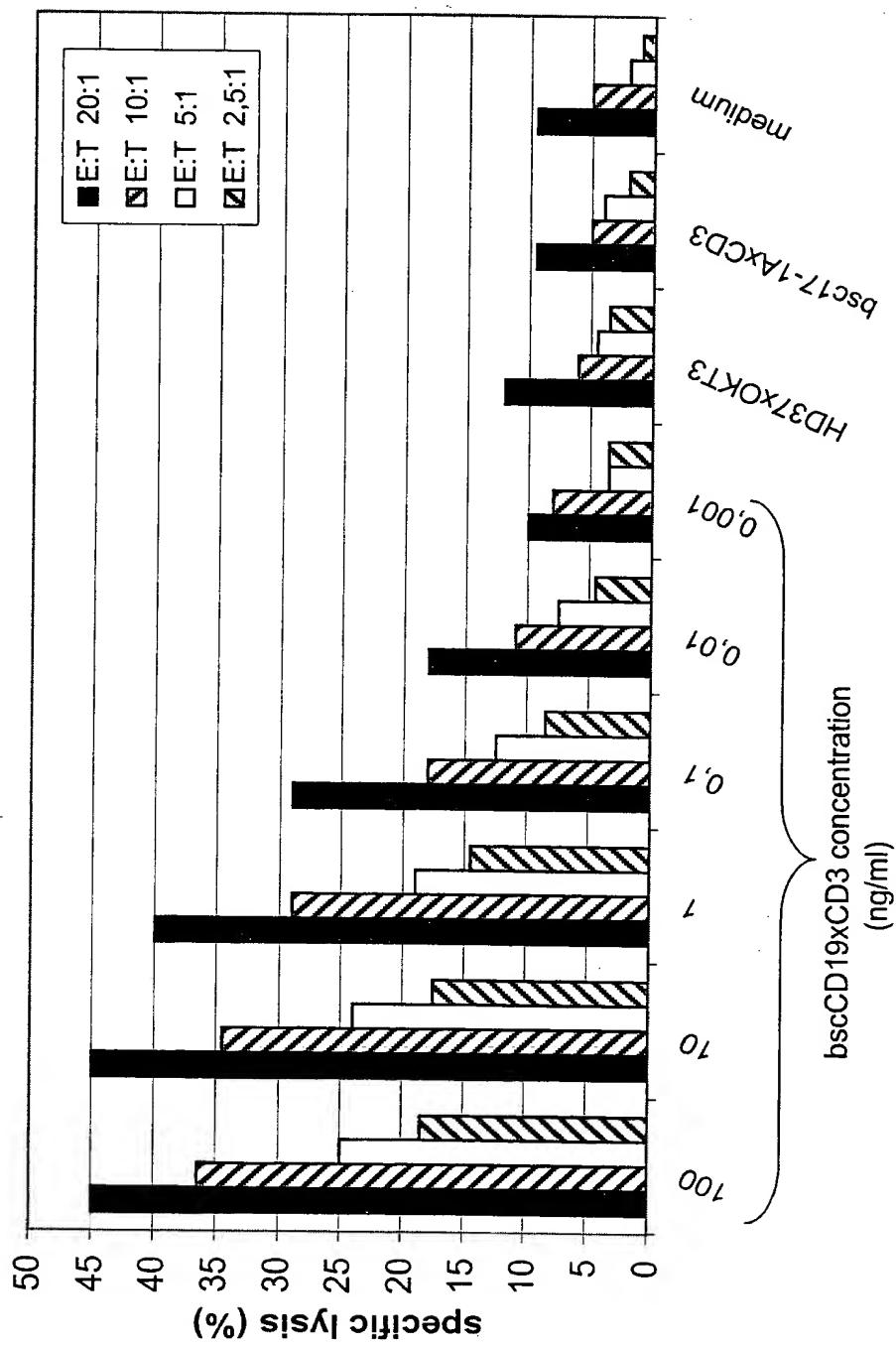
**Cytotoxicity assay with unstimulated PBMC's against Daudi cells
after addition of increasing amounts of EGTA**



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Figure 7:

Cytotoxicity of bscCD19xCD3 in a 51-Cr release assay
with unstimulated PBMCs in different E:T ratios



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Figure 8:

												-10	-5	-1			
												5'	G	AAT	TCC	ACC	
ATG	GGA	TGG	AGC	TGT	ATC	ATC	CTC	TTC	TTG	GTA	GCA	ACA	GCT	ACA	GGT	GTC	CAC
M	G	W	S	C	I	I	L	F	L	V	A	T	A	T	G	V	H
TCC	GAC	TAC	AAA	GAT	GAT	GAC	GAT	AAG	GAT	ATC	CAG	CTG	ACC	CAG	TCT	CCA	GCT
S	D	Y	K	D	D	D	D	K	D	I	Q	L	T	Q	S	P	A
TCT	TTG	GCT	GTG	TCT	CTA	GGG	CAG	AGG	GCC	ACC	ATC	TCC	TGC	AAG	GCC	AGC	CAA
S	L	A	V	S	L	G	Q	R	A	T	I	S	C	K	A	S	Q
AGT	GTT	GAT	TAT	GAT	GGT	GAT	AGT	TAT	TTG	AAC	TGG	TAC	CAA	CAG	ATT	CCA	GGA
S	V	D	Y	D	G	D	S	Y	L	N	W	Y	Q	Q	I	P	G
CAG	CCA	CCC	AAA	CTC	CTC	ATC	TAT	GAT	GCA	TCC	AAT	CTA	GTT	TCT	GGG	ATC	CCA
Q	P	P	K	L	L	I	Y	D	A	S	N	L	V	S	G	I	P
CCC	AGG	TTT	AGT	GGC	AGT	GGG	TCT	GGG	ACA	GAC	TTC	ACC	CTC	AAC	ATC	CAT	CCT
P	R	F	S	G	S	G	S	G	T	D	F	T	L	N	I	H	P
GTG	GAG	AAG	GTG	GAT	GCT	GCA	ACC	TAT	CAC	TGT	CAG	CAA	AGT	ACT	GAG	GAT	CCG
V	E	K	V	D	A	A	T	Y	H	C	Q	Q	S	T	E	D	P
TGG	ACG	TTC	GGT	GGG	ACC	AAG	CTC	GAG	ATC	AAA	GGT	GGT	GGT	GGT	GGT	TCT	GGC
W	T	F	G	G	G	T	K	L	E	I	K	G	G	G	G	S	G
GGC	GGC	GGC	TCC	GGT	GGT	GGT	GGT	TCT	CAG	GTG	CAG	CTG	CAG	CAG	TCT	GGG	GCT
G	G	G	S	G	G	G	G	S	Q	V	Q	L	Q	Q	S	G	A
GAG	CTG	GTG	AGG	CCT	GGG	TCC	TCA	GTG	AAG	ATT	TCC	TGC	AAG	GCT	TCT	GGC	TAT
E	L	V	R	P	G	S	S	V	K	I	S	C	K	A	S	G	Y
GCA	TTC	AGT	AGC	TAC	TGG	ATG	AAC	TGG	GTG	AAG	CAG	AGG	CCT	GGA	CAG	GGT	CTT
A	F	S	S	Y	W	M	N	W	V	K	Q	R	P	G	Q	G	L
GAG	TGG	ATT	GGA	CAG	ATT	TGG	CCT	GGA	GAT	GGT	GAT	ACT	AAC	TAC	AAT	GGA	AAG
E	W	I	G	Q	I	W	P	G	D	G	D	T	N	Y	N	G	K
TTC	AAG	GGT	AAA	GCC	ACT	CTG	ACT	GCA	GAC	GAA	TCC	TCC	AGC	ACA	GCC	TAC	ATG
F	K	G	K	A	T	L	T	A	D	E	S	S	S	T	A	Y	M
CAA	CTC	AGC	AGC	CTA	GCA	TCT	GAG	GAC	TCT	GCG	GTC	TAT	TTC	TGT	GCA	AGA	CGG
Q	L	S	S	L	A	S	E	D	S	A	V	Y	F	C	A	R	R

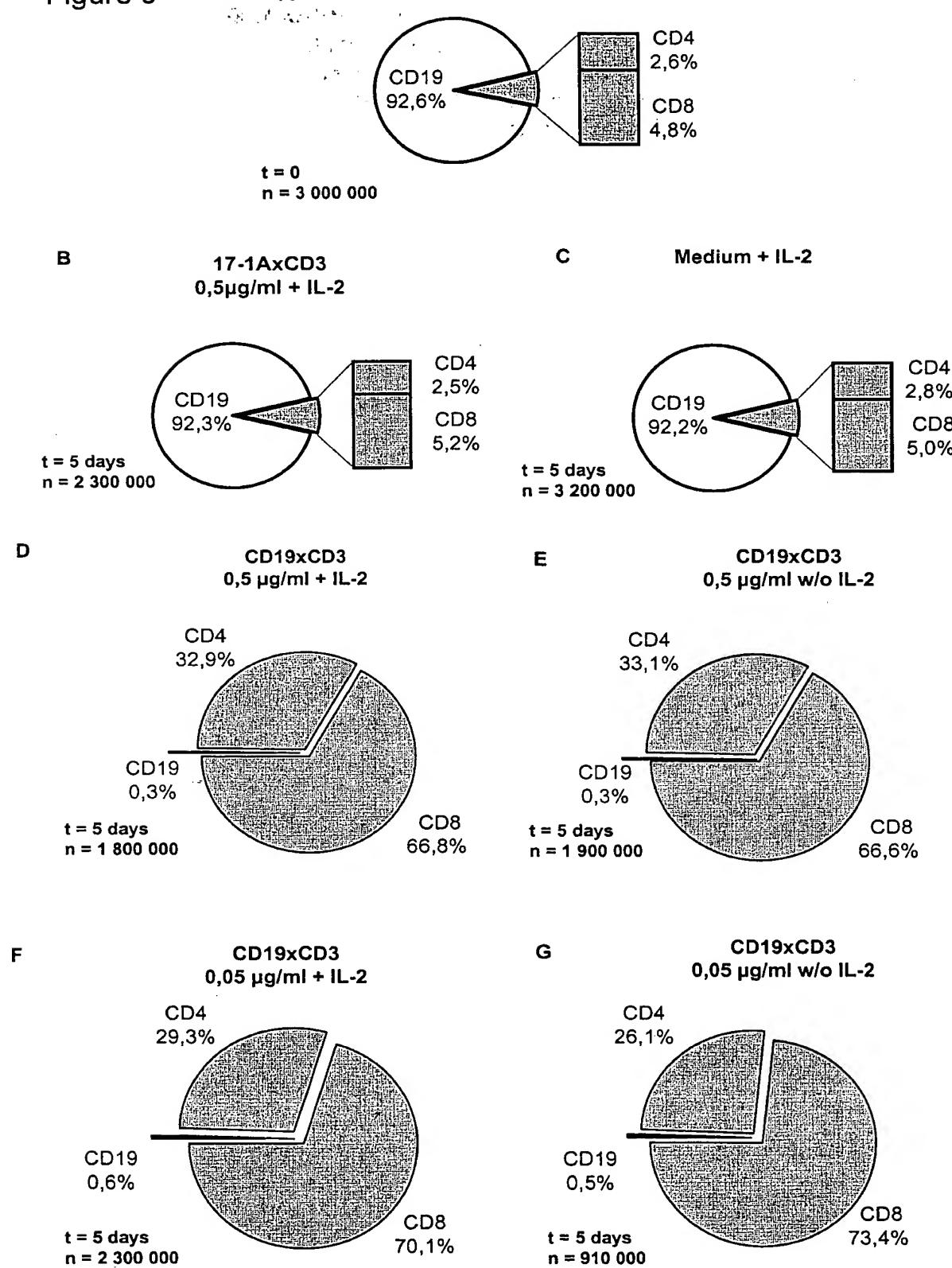
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Figure 8 (continued)

765	774	783	792	801	810
GAG ACT ACG ACG GTA GGC CGT TAT TAC TAT GCT ATG GAC TAC TGG GGC CAA GGG					
E T T T V G R Y Y Y A M D Y W G Q G					
819	828	837	846	855	864
ACC ACG GTC ACC GTC TCC TCC GGA GGT GGT GGA TCC GAT ATC AAA CTG CAG CAG					
T T V T V S S G G G G S D I K L Q Q					
873	882	891	900	909	918
TCA GGG GCT GAA CTG GCA AGA CCT GGG GCC TCA GTG AAG ATG TCC TGC AAG ACT					
S G A E L A R P G A S V K M S C K T					
927	936	945	954	963	972
TCT GGC TAC ACC TTT ACT AGG TAC ACG ATG CAC TGG GTA AAA CAG AGG CCT GGA					
S G Y T F T R Y T M H W V K Q R P G					
981	990	999	1008	1017	1026
CAG GGT CTG GAA TGG ATT GGA TAC ATT AAT CCT AGC CGT GGT TAT ACT AAT TAC					
Q G L E W I G Y I N P S R G Y T N Y					
1035	1044	1053	1062	1071	1080
AAT CAG AAG TTC AAG GAC AAG GCC ACA TTG ACT ACA GAC AAA TCC TCC AGC ACA					
N Q K F K D K A T L T T D K S S S T					
1089	1098	1107	1116	1125	1134
GCC TAC ATG CAA CTG AGC AGC CTG ACA TCT GAG GAC TCT GCA GTC TAT TAC TGT					
A Y M Q L S S L T S E D S A V Y Y C					
1143	1152	1161	1170	1179	1188
GCA AGA TAT TAT GAT GAT CAT TAC TGC CTT GAC TAC TGG GGC CAA GGC ACC ACT					
A R Y Y D D H Y C L D Y W G Q G T T					
1197	1206	1215	1224	1233	1242
CTC ACA GTC TCC TCA GTC GAA GGT GGA AGT GGA GGT TCT GGT GGA AGT GGA GGT					
L T V, S S V E G G S G G S G G S G G					
1251	1260	1269	1278	1287	1296
TCA GGT GGA GTC GAC GAC ATT CAG CTG ACC CAG TCT CCA GCA ATC ATG TCT GCA					
S G G V D D I Q L T Q S P A I M S A					
1305	1314	1323	1332	1341	1350
TCT CCA GGG GAG AAG GTC ACC ATG ACC TGC AGA GCC AGT TCA AGT GTA AGT TAC					
S P G E K V T M T C R A S S S V S Y					
1359	1368	1377	1386	1395	1404
ATG AAC TGG TAC CAG CAG AAG TCA GGC ACC TCC CCC AAA AGA TGG ATT TAT GAC					
M N W Y Q Q K S G T S P K R W I Y D					
1413	1422	1431	1440	1449	1458
ACA TCC AAA GTG GCT TCT GGA GTC CCT TAT CGC TTC AGT GGC AGT GGG TCT GGG					
T S K V A S G V P Y R F S G S G S G					
1467	1476	1485	1494	1503	1512
ACC TCA TAC TCT CTC ACA ATC AGC AGC ATG GAG GCT GAA GAT GCT GCC ACT TAT					
T S Y S L T I S S M E A E D A A T Y					
1521	1530	1539	1548	1557	1566
TAC TGC CAA CAG TGG AGT AGT AAC CCG CTC ACG TTC GGT GCT GGG ACC AAG CTG					
Y C Q Q W S S N P L T F G A G T K L					
1575	1584	1593			
GAG CTG AAA CAT CAT CAC CAT CAT TAG TCG AC 3'					
E L K H H H H H H *					

Figure 9

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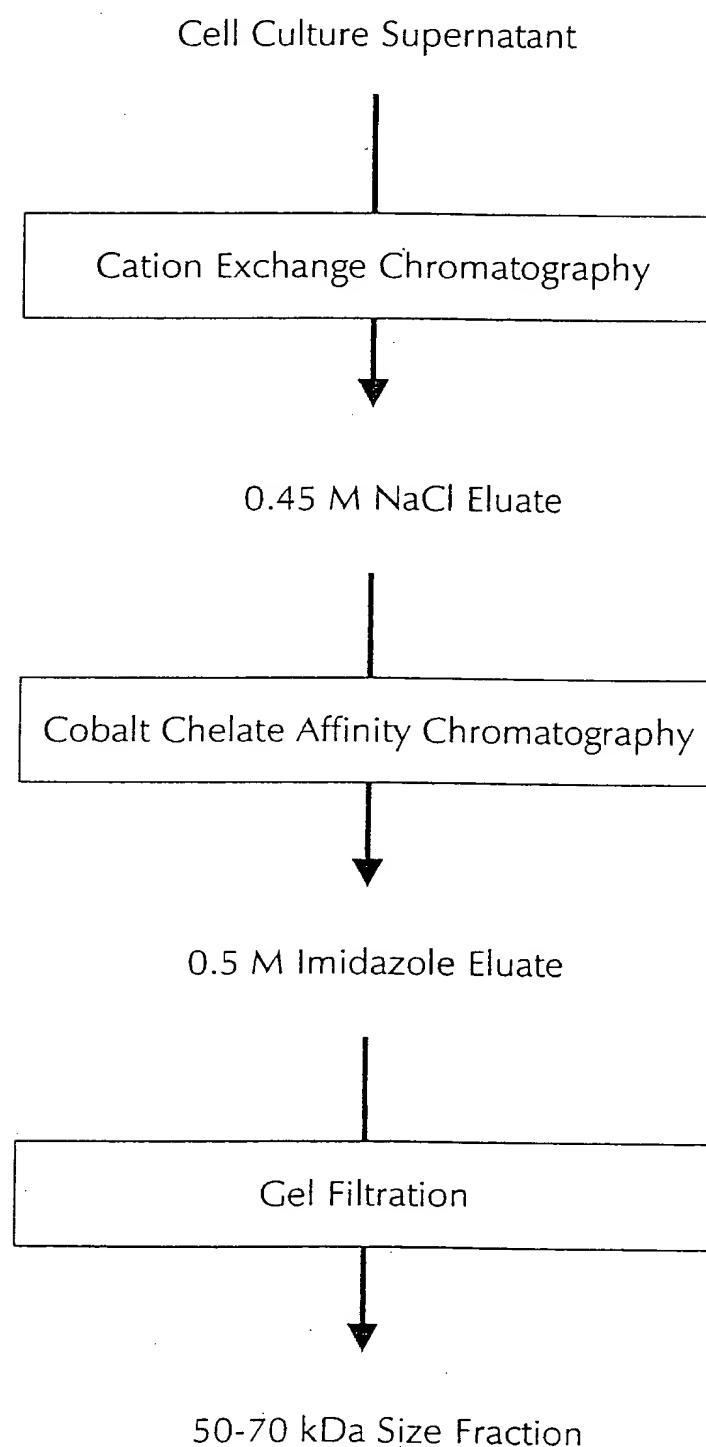


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Figure 10

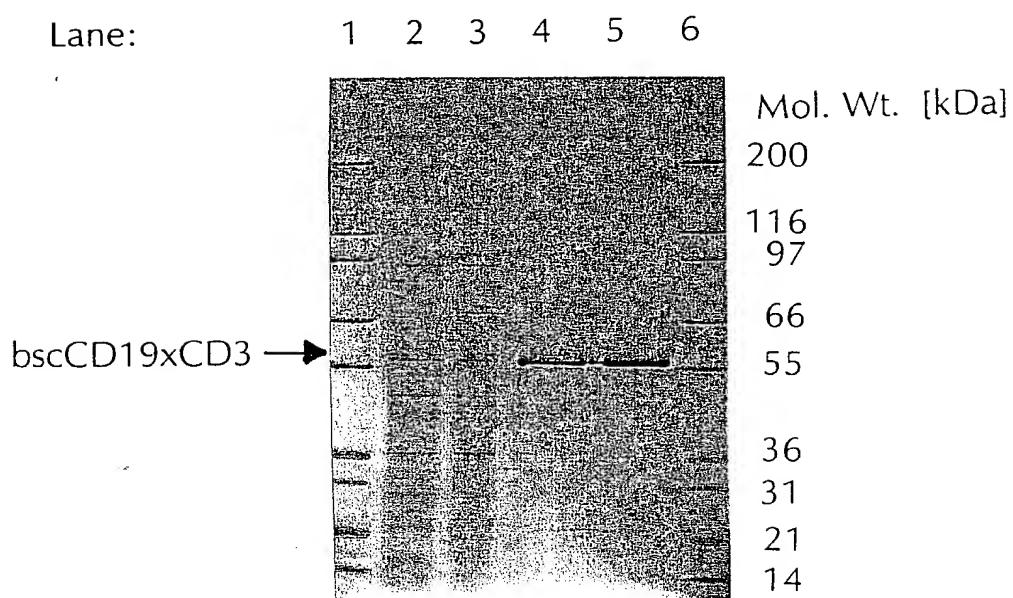
Purification of bscCD19xCD3



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Figure 11 SDS-PAGE Analysis of bscCD19xCD3

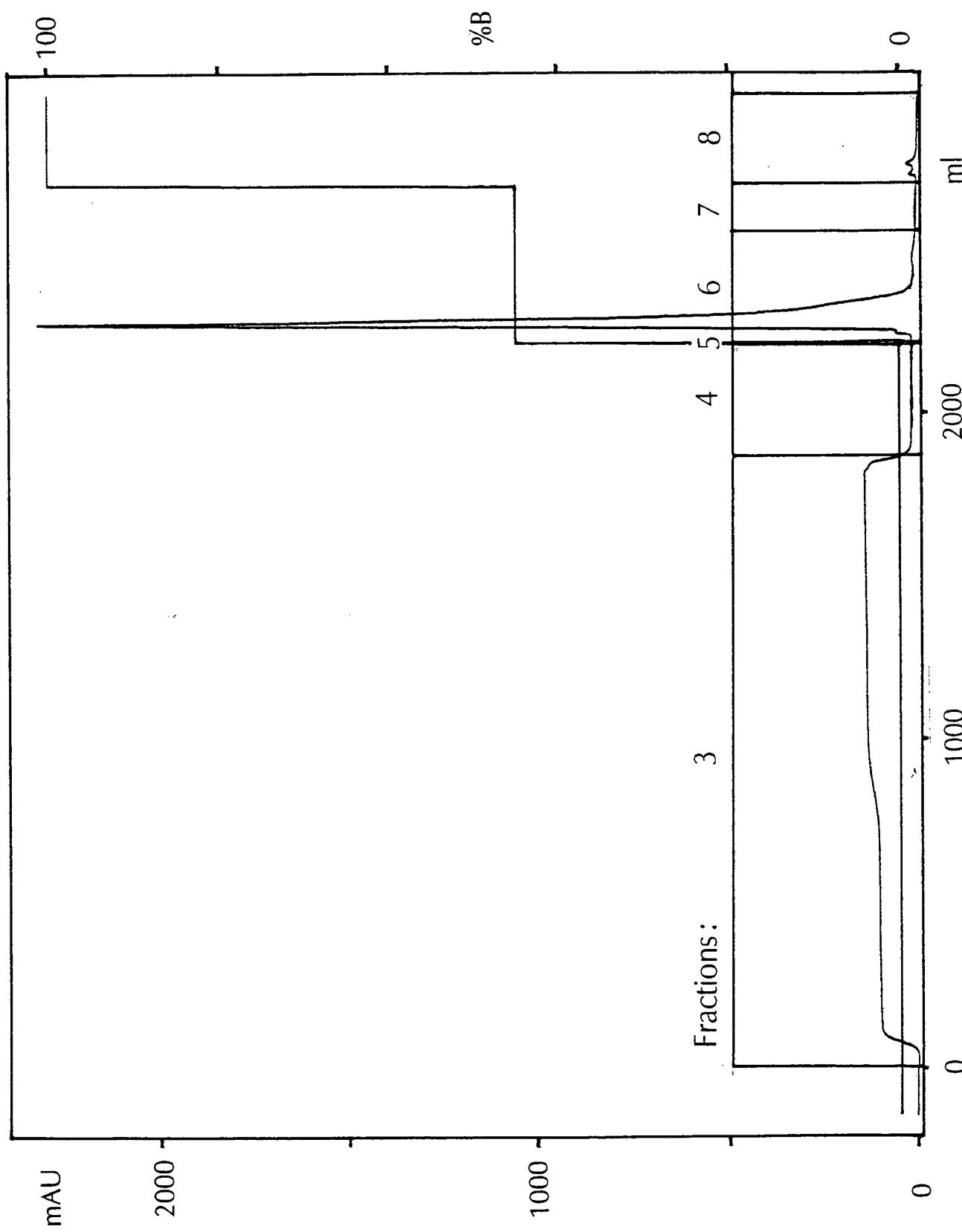


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Figure 12

Cation Exchange Chromatography of bscCD16xCD3⁺ 0



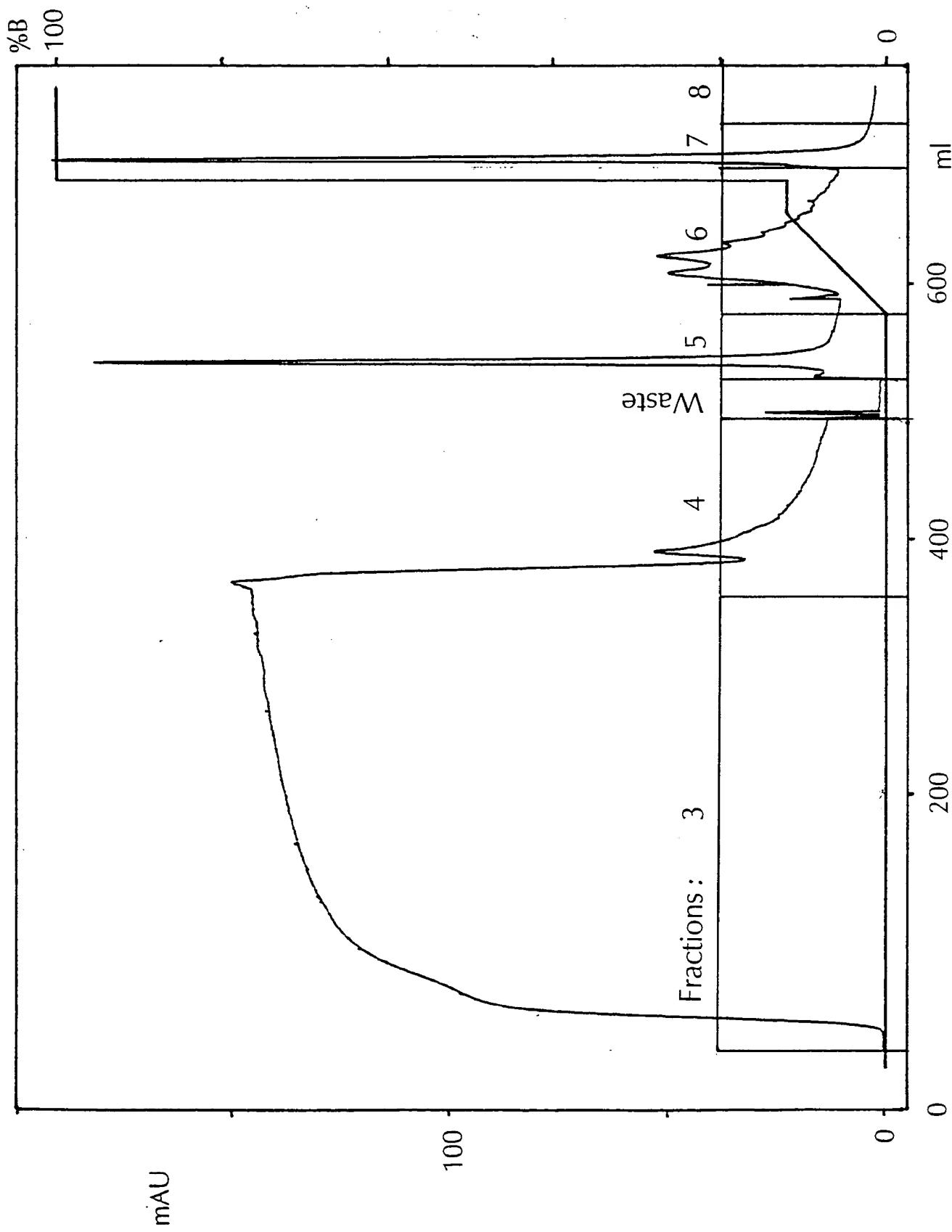
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Figure 13

CD19xCD3

Cobalt Chelate Affinity Chromatography of bscCD19xCD3

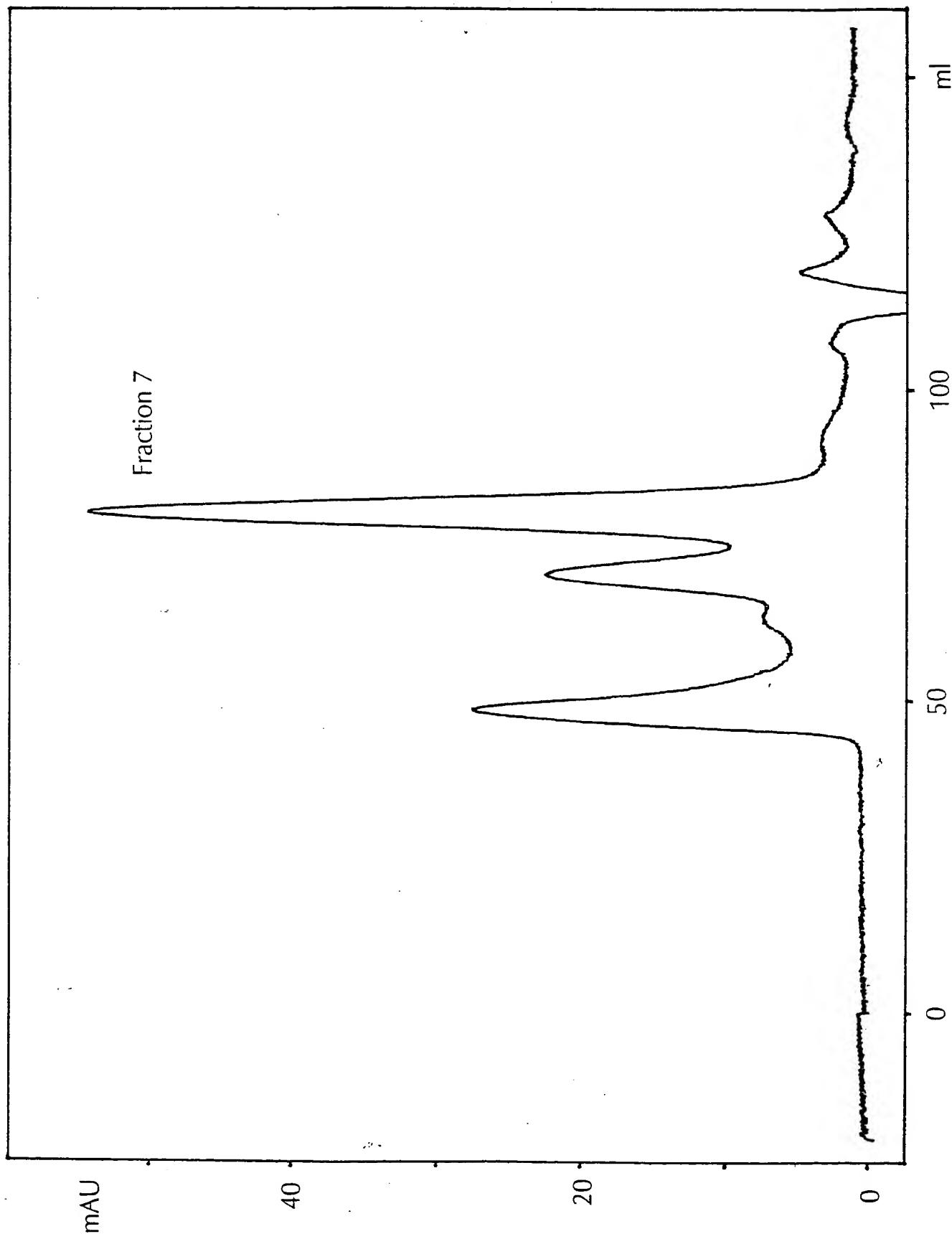


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Figure 14

Gel Filtration of bscCD19xCD3

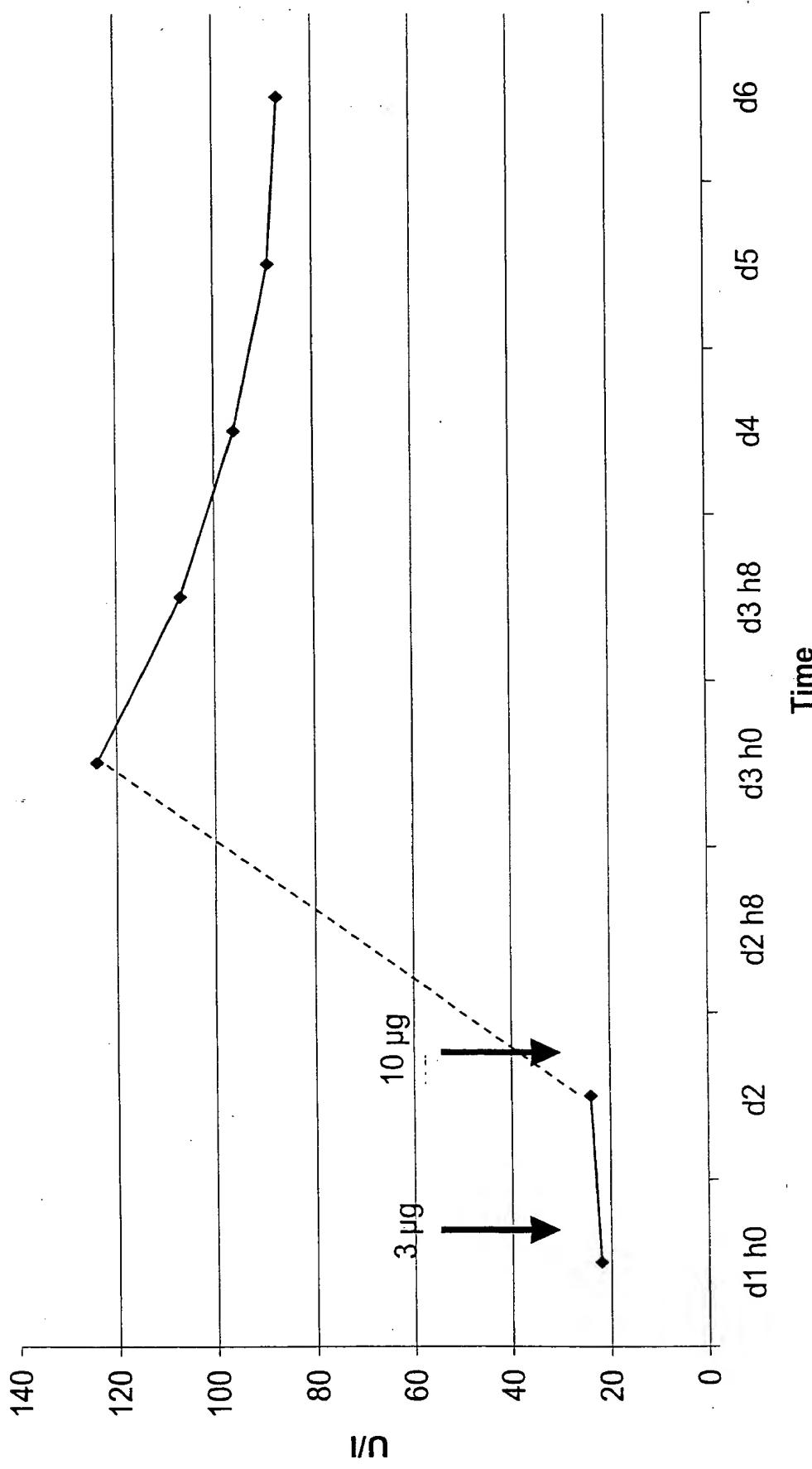


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Figure 15:

GGT

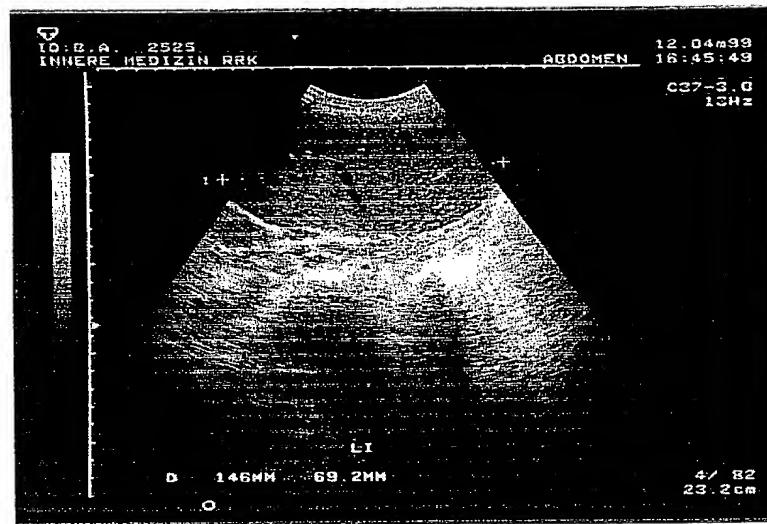


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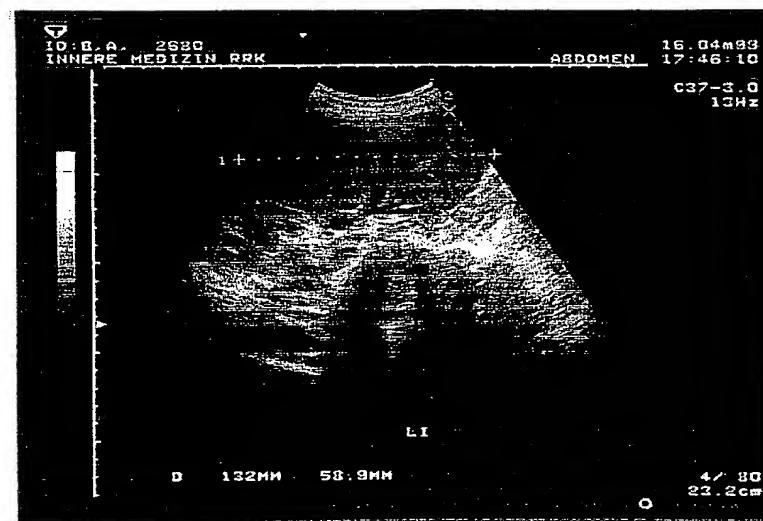
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Figure 16

A

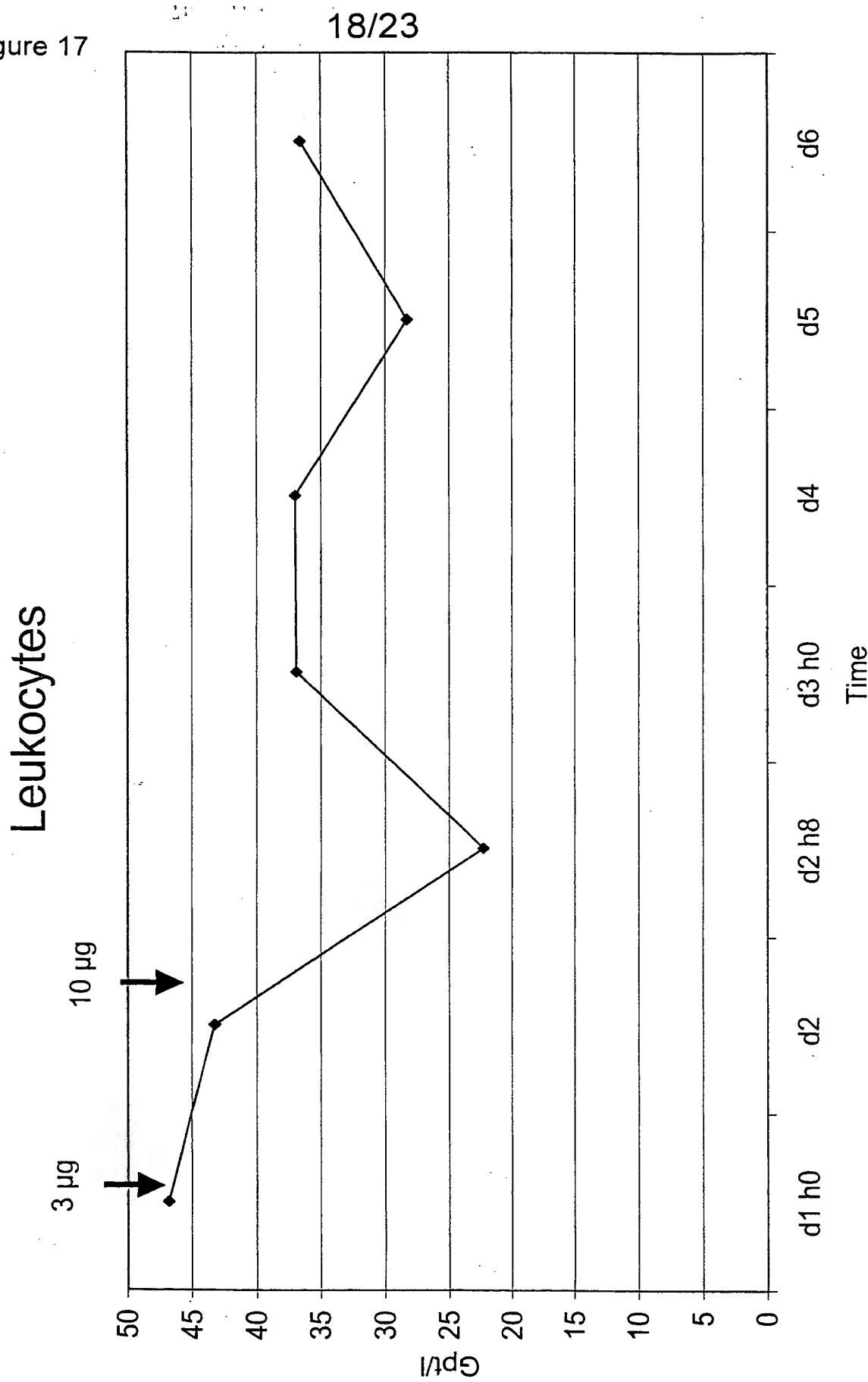


B



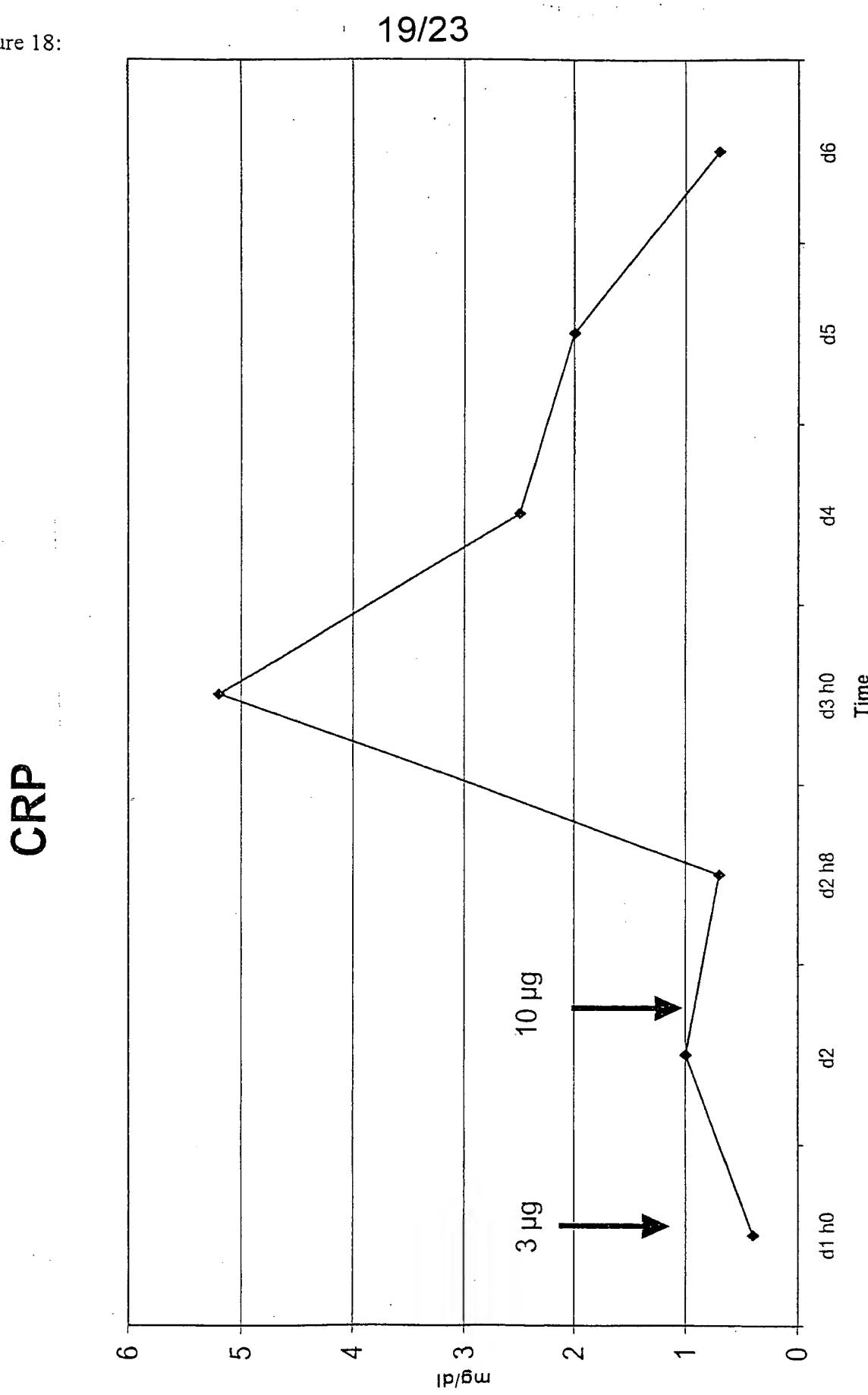
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Figure 17



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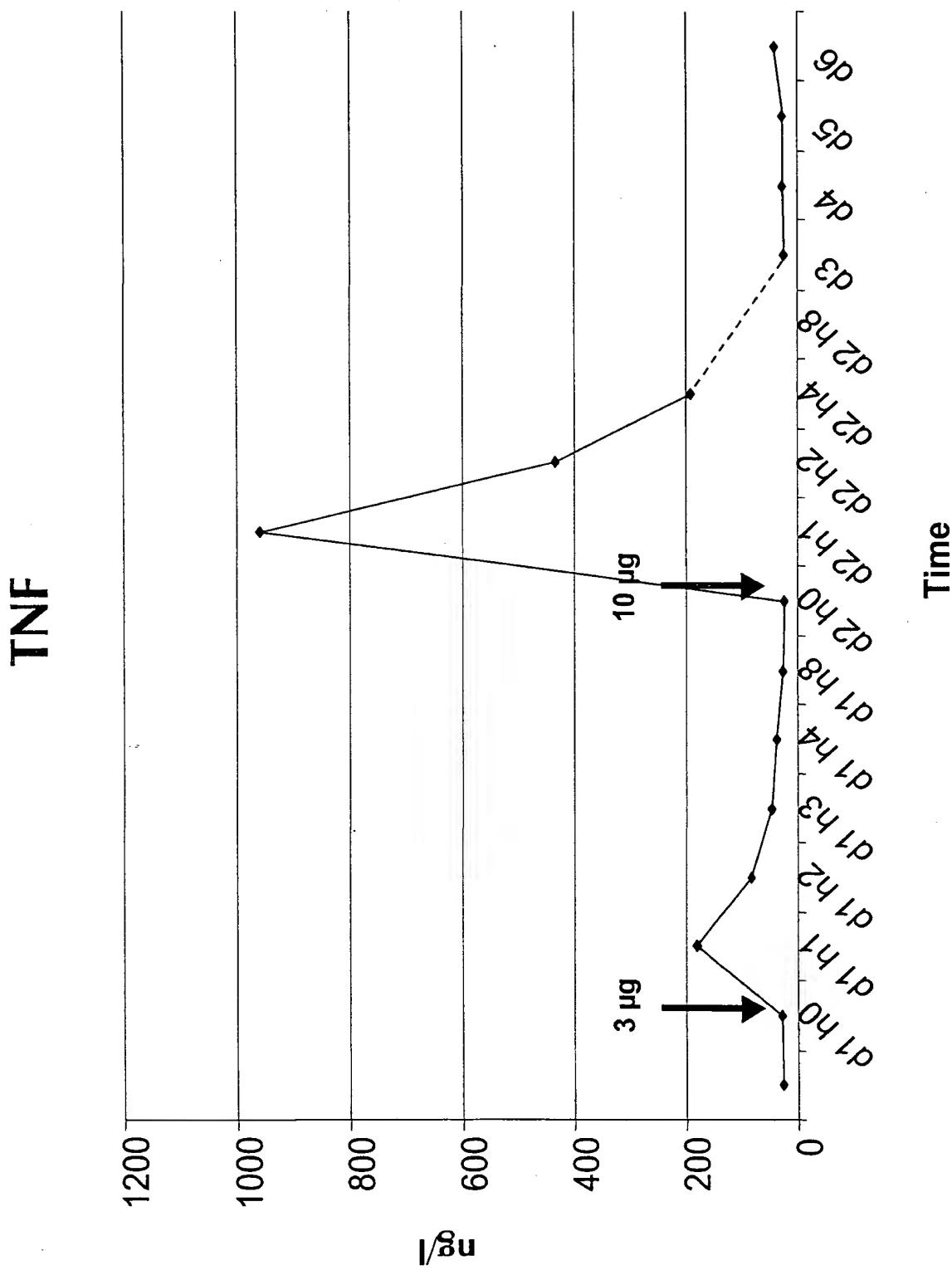
Figure 18:



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Figure 19

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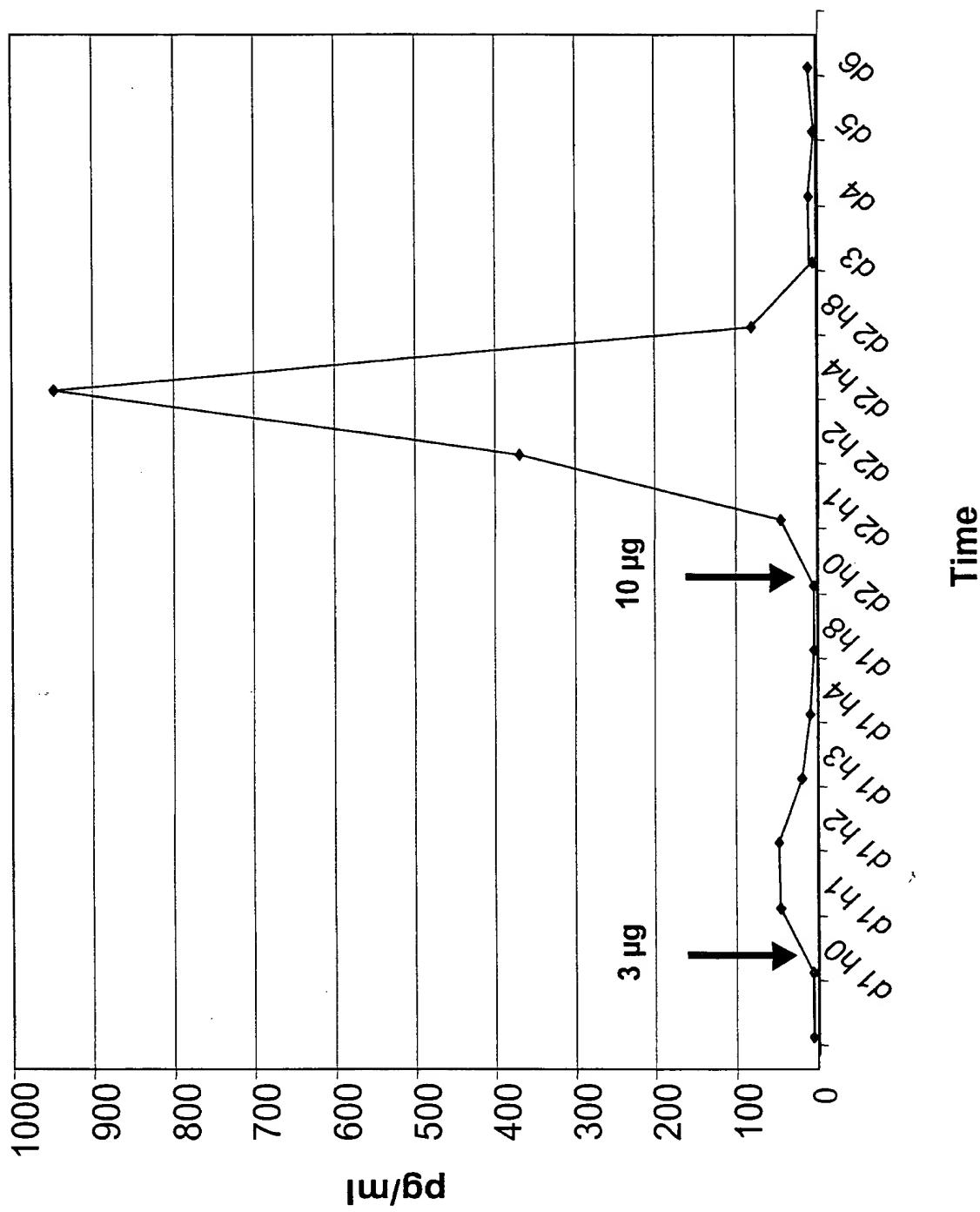


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Figure 20.

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IL-6

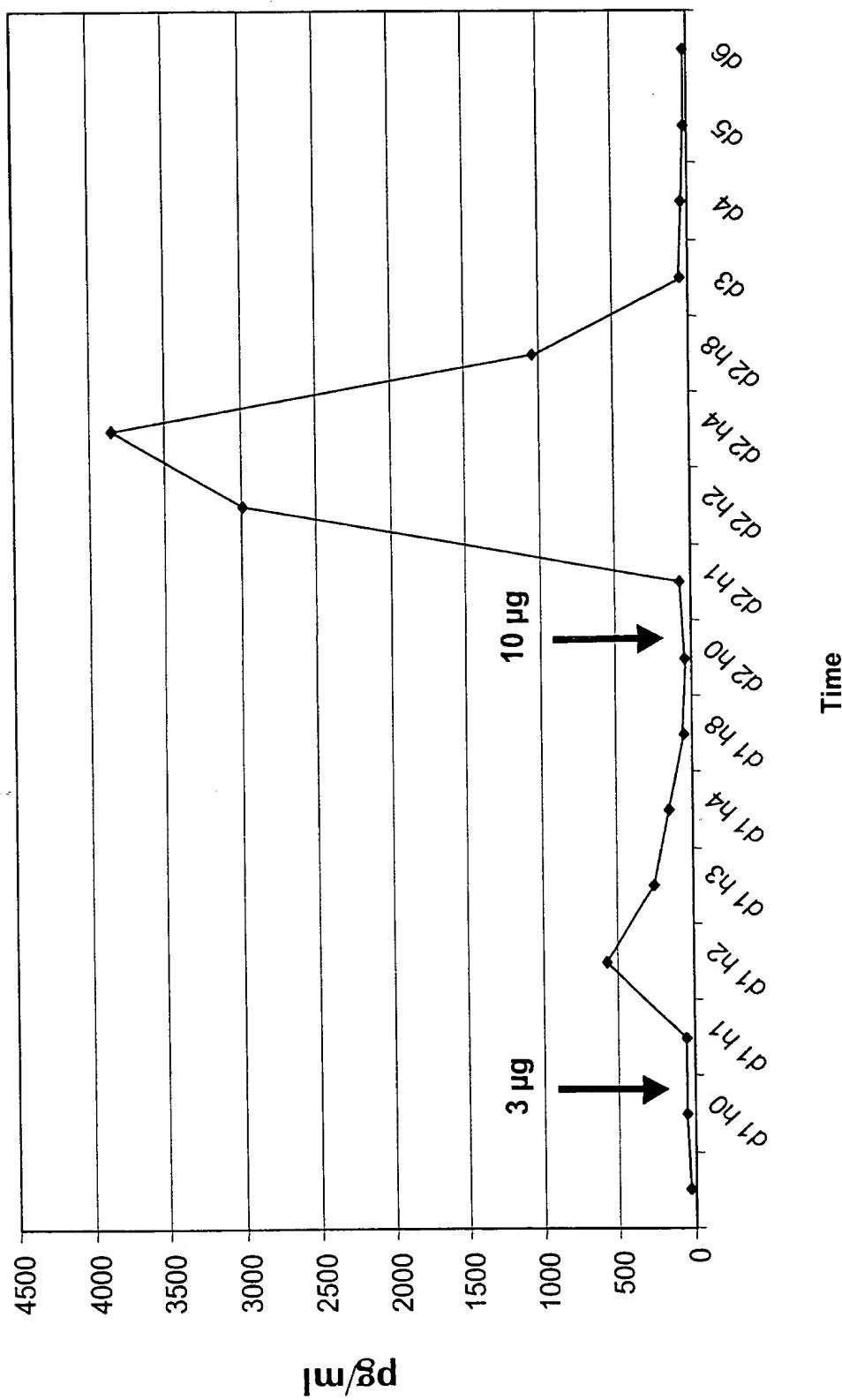


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Figure 21

IL-8



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Figure 22

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IL-2 R

